思沃<sup>®</sup>化学 SiwoChem



Characteristics:	It is an aqueous anionic dispersion polyurethane of a high molecular weight. It is a raw material for formulation of heat-activated adhesives for use in, for example, the furniture, automotive, and construction industries. U-50X provides high solids		
	content, and is particularly suitable for substrates.	applications involving flexible PVC	
Supplied as:	50% in water		
Physical characteristics:	Appearance	Translucent-milky white	
	Non-volatile constituent	50±1 %	
	PH value	6.5 - 8.5	
	Viscosity	≤300 mPa s	
	$Density(d_4^{20})$	1.04	
	NMP, NEP, DMAC etc.	Free	
	Minimum film-forming temperature	5℃	
	Minimum activation temperature	50-60℃	
	Yellowing resistance	non- yellowing	
Storage:	The dispersion should be stored in a frost-free place in tightly sealed containers.		
	It contains no preservative.		

Application: U-50X has outstanding bonding properties on the most synthetic and natural materials. The thermal stability and resistance to plasticizers, grease and oil can be increased by the addition of 2-5% by weight of a water-dispersible polyisocyanate (For example, our product EC-600). The crosslinker is added just before application of the adhesive and mixed thoroughly. The pot life of the formulation should be borne in mind. In order to customize other and application-specific and technical properties, resin dispersions, emulsifiers and thickeners may also be added. Before application, especially by spraying, the product should be filtered to remove polymer particles which may have formed by initial drying. It does not contain NMP, NEP, DMAC etc.

## Reference

The mechanical properties of the film were measured just after drying:

Elongation	1365%
Tensile strength	21.6Mpa
100% Modulus	0.8Mpa

The film after being placed at room temperature for 24 hours:

Answers for waterborne coatings & adhesives



Elongation	1139%
Tensile strength	18.3Mpa
100% Modulus	2.2Mpa

## The film after being placed at room temperature for 72 hours:

Elongation	933.5%
Tensile strength	18.3Mpa
100% Modulus	3.3Mpa

The information and recommendations in this publication are to the best of our knowledge, information and belief accurate at the date of publication. Nothing herein is to be construed as a warranty, express or otherwise. In all cases, it is the responsibility of the users to determine the applicability of such information or suitability of any products for their own purposes. Statements or suggestions concerning possible use of our products are made without representation or warranty that any such is free of patent infringement and are not recommendations to infringe on any patent.